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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/041,826	01/03/2002	Benjamin R. Yerxa	03678.0023.CNUS03	5357		
27194	27194 7590 09/09/2004			EXAMINER		
	IMON ARNOLD & WH	LEWIS, PATRICK T				
C/O M.P. DRO 2941 FAIRVII	OSOS, DIRECTOR OF IP EW PK	ART UNIT	PAPER NUMBER			
BOX 7		1623				
FALLS CHURCH, VA 22042			DATE MAILED: 09/09/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)				
		10/041,82	26	YERXA ET AL.				
		Examiner	,	Art Unit				
		Patrick T.	Lewis	1623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖾	Responsive to communication(s) filed on 17	June 2004.						
· -	This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) ☐ Claim(s) 1-3 and 5-17 is/are pending in the application. 4a) Of the above claim(s) 3.5 and 6 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) -2 and 5-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers							
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the oath or declaration is objected to by the	ccepted or b) ne drawing(s) b ection is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	· ·			
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da	te	2.452)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date	08)	5) Notice of Informal Pa	atent Application (PTC	J-15Z)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group II wherein **X** is oxygen, **m** + **n** = 2, and **B** and **B**' are a pyrimidine of general Formula IIb in Paper No. 4 dated July 8, 2003 is acknowledged. Election was made **without** traverse.

2. The restriction requirement as to the encompassed species of Group II is hereby withdrawn and claims directed to the species drawn to the variables X, m + n, and B and B' are no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

3. Claims 3 and 5-6 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 4 dated July 8, 2003.

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Applicant's Response dated June 17, 2004

4. In the Response filed June 17, 2004, claims 1, 8, 11-13 were amended; claim 4 was canceled; and claims 16-17 were added.

- 5. Claims 1-3 and 5-17 are pending. Claims 3 and 5-6 are drawn to a nonelected invention. An action on the merits of claims 1-2 and 7-17 is contained herein below.
- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. The objection to claims 4 and 11-13 has been rendered moot in view of applicant's amendment dated June 17, 2004.
- 8. The rejection of claims 1, 2, 4, and 7-14 under 35 U.S.C. 112, second paragraph, has been rendered moot in view of applicant's amendment dated June 17, 2004.
- 9. The rejection of claims 1-2 and 7-15 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 5,900,407 is maintained for the reasons of record set forth in the Office Action dated March 17, 2004.
- 10. The rejection of claim 4 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 5,900,407 has been rendered moot in view of applicant's amendment dated June 17, 2004.

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- 11. The provisional rejection of claims 1-2 and 7-15 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/010,055 is maintained for the reasons of record set forth in the Office Action dated March 17, 2004.
- 12. The provisional rejection of claim 4 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/010,055 has been rendered moot in view of applicant's amendment dated June 17, 2004.

Objections/Rejections of Record Set Forth in Office Action Dated March 17, 2004

13. Claims 1-2 and 7-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 5,900,407. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The difference between the instantly claimed method of enhancing drainage of the lacrimal system and the method of stimulating tear secretion of the '407 patent is that the method of the '407 patent is not limited to the use of the dinucleotide of Formula II. The claims of '407 and the instant invention overlap substantially, and to issue a patent to the claims of the instant application would be to extend the patent term for subject matter patented in '407. Although the two inventions are drawn to a different effect, they are not patentably distinct.

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14. Applicant's arguments filed June 17, 2004 have been fully considered but they are not persuasive. Applicant argues that a method of stimulating tear secretion and a method of enhancing drainage of the lacrimal system are opposite mechanisms and achieve the opposite results. The examiner respectfully disagrees.

In construing the process claims in suit and the references, it is an identity of manipulative operations (i.e. administration of a dinucleotide of Formula II to the eyes), which leads to a finding of obviousness. It is settled that the scientific explanation for an invention is unimportant in considering patentability. More specifically, a reference need not disclose the scientific effects which are inherent to the process.

15. Claims 1-2 and 7-15 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/010,055. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The difference between the method of the instant application and the method of the '055 application is that the instant application is drawn to a method of enhancing drainage of the lacrimal system; however one of ordinary skill in the art at the time of the invention would have a reasonable expectation of success of enhancing drainage of the lacrimal system employing the method of the '055 application since both methods employ the same nucleotide (compound of Formula II) and methodological steps (administration of a compound of Formula III) to the eyes). Likewise, one of ordinary skill in the art at the time of the

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invention would have a reasonable expectation of success in employing the method of the instant application to stimulate tear secretion and mucin production in the eye. Although the two inventions are drawn to a different effect, they are not patentably distinct.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

16. Applicant's arguments filed June 17, 2004 have been fully considered but they are not persuasive. Applicant argues that a method of stimulating tear secretion and a method of enhancing drainage of the lacrimal system are opposite mechanisms and achieve the opposite results. The examiner respectfully disagrees.

In construing the process claims in suit and the references, it is an identity of manipulative operations (i.e. administration of a dinucleotide of Formula II to the eyes), which leads to a finding of obviousness. It is settled that the scientific explanation for an invention is unimportant in considering patentability. More specifically, a reference need not disclose the scientific effects which are inherent to the process.

Double Patenting

17. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164

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USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

18. Claims 16-17 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 5,900,407. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The difference between the instantly claimed method of enhancing

drainage of the lacrimal system and the method of stimulating tear secretion of the '407 patent is that the method of the '407 patent is not limited to the use of the dinucleotide of Formula II. The claims of '407 and the instant invention overlap substantially, and to issue a patent to the claims of the instant application would be to extend the patent term for subject matter patented in '407. Although the two inventions are drawn to a different effect, they are not patentably distinct.

19. Claims 16-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/010,055. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The difference between the method of the instant application and the method of the '055 application is that the instant application is drawn to a method of enhancing drainage of the lacrimal system; however one of ordinary skill in the

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art at the time of the invention would have a reasonable expectation of success

of enhancing drainage of the lacrimal system employing the method of the '055

application since both methods employ the same nucleotide (compound of

Formula II) and methodological steps (administration of a compound of Formula

II to the eyes). Likewise, one of ordinary skill in the art at the time of the

invention would have a reasonable expectation of success in employing the

method of the instant application to stimulate tear secretion and mucin production

in the eye. Although the two inventions are drawn to a different effect, they are

not patentably distinct.

This is a provisional obviousness-type double patenting rejection because

the conflicting claims have not in fact been patented.

Conclusion

20. Claims 1-3 and 5-17 are pending. Claims 3 and 5-6 are drawn to a

nonelected invention. Claims 1-2 and 5-17 are rejected. No claims are allowed.

21. Applicant's amendment necessitated the new ground(s) of rejection

presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL.

See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as

set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire

THREE MONTHS from the mailing date of this action. In the event a first reply is

filed within TWO MONTHS of the mailing date of this final action and the advisory

action is not mailed until after the end of the THREE-MONTH shortened statutory

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period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick T. Lewis whose telephone number is 571-272-0655. The examiner can normally be reached on M-F 10:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick T. Lewis, PhD Examiner Art Unit 1623

ptl August 30, 2004 Dr. Samuel Barts

Primary Patent Examiner Technology Center 1600